



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Margarita Ortiz-Marciales, *et al.*)

Group Art Unit: Unkown

Application No.: 10/775,011)

Examiner: Unknown

Filed: February 9, 2004)

CERTIFICATE OF MAILING

For: EFFICIENT AND CONVENIENT)
PROCEDURE FOR THE SYNTHESIS)
OF B-ALKYLATED)
OXAZABOROLIDINES DERIVED)
FROM EPHEDRINE AND)
NOREPHEDRINE)

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

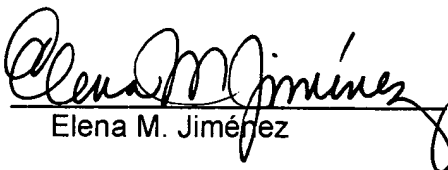
I hereby certify that the attached correspondence including:

- Information Disclosure Statement by Applicant
- Information Disclosure Statement under 37 C.F.R. § 1.97(b)

is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to:

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

February 29, 2004

By: 
Elena M. Jiménez



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Margarita Ortiz-)	Group Art Unit: Unknown
Marciales, et al.)	
)	Examiner: Unknown
Application No.: 10/775,011)	
)	
Filed: February 9, 2004)	INFORMATION DISCLOSURE
)	STATEMENT UNDER 37 C.F.R. §
For: EFFICIENT AND CONVENIENT)	1.97(b)
PROCEDURE FOR THE)	
SYNTHESIS OF B-ALKYLATED)	
OXAZABOROLIDINES DERIVED)	
FROM EPHEDRINE AND)	
NOREPHEDRINE)	
)	

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), applicants bring to the attention of the Examiner the documents listed on the attached form. A first office action has not been issued in this case. Copies of the listed publications are attached.

Applicants respectfully request that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art". If the Examiner applies any of the documents as prior art against any claim in the application and applicants determine that the cited documents do not constitute "prior art" under United States law, applicants reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

Respectfully submitted,

February 29, 2004

By: 

Heath W. Hoglund

Registration No. 41,076

256 Eleanor Roosevelt

San Juan, PR 00918

Telephone: (787)772-9200

Facsimile: (787)772-9533

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Complete if known

Application Number	10/775,011
Filing Date	2-9-2004
First Named Inventor	Ortiz-Marciales
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	UPR-3100

Sheet 1 of 4

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U. S. Patent Document	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number		
	AA	6,005,133	Quallich	12-21-1999
	AB	6,020,495	Sun, <i>et al.</i>	02-01-2000
	AC	6,037,505	Quallich	03-14-2000
	AD	US2002/0038053 A1	Draper	03-28-2002
	AE			
	AF			
	AG			
	AH			
	AI			
	AJ			
	AK			
	AL			
	AM			
	AN			
	AO			
	AP			
	AQ			
	AR			
	AS			
	AT			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Documents MM- DD-YYYY
		Country	Number		
	BA				
	BB				
	BC				
	BD				
	BE				
	BF				
	BG				
	BH				
	BI				
	BJ				

Examiner
Initials

Date
Considered

INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Complete If Known	
				Application Number	10/775,011
				Filing Date	2-9-2004
				First Named Inventor	Ortiz-Marciales
				Group Art Unit	Unknown
Examiner Name	Unknown				
Sheet	2	of	4	Attorney Docket Number	UPR-3100

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTER), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page (s), volume-issue number(s), publisher, city and/or country where published.
	CA	SHINICHI ITSUNO, KOICHI ITO, AKIRA HIRAO and SEIICHI NAKAHAMA; <i>Asymmetric Reduction of Aliphatic Ketones with The Reagent Prepared from (S)-(-)-2-Amino-3-methyl-1, 1-diphenylbutan-1-ol And Borane</i> ; <u>J. Org. Chem.</u> ; 1984; pp. 555-557; School of Materials Science, Toyohashi, Japan; Department of Polymer Science, Tokyo, Japan.
	CB	ELIAS J. COREY and CHRISTOPHER J. HELAL; <i>Reduction of Carbonyl Compounds with Chiral Oxazaborolidine Catalysts; A New Paradigm for Enantioselective Catalysis and a Powerful New Synthetic Method</i> ; <u>Angewandte Chemie</u> ; 1988; pp. 1986-2012; Germany.
	CC	YOJI SAKITO, YUKIO YONEYOSHI, and GOHFU SUZUKAMO; <i>Asymmetric Reduction of Oxime Ethers, Distinction of Anti and Syn Isomers Leading to Enantiomeric Amines</i> ; <u>Tetrahedron Letters</u> , 1988; pp. 223-224; Great Britain.
	CD	N. N. JOSHI, M. SREBNIK, and HERBERT C. BROWN; <i>Chiral Oxazaborolidines as Catalysts for the Enantioselective Addition of Diethylzinc to Aldehydes</i> ; <u>Tetrahedron Letters</u> ; 1989; pp. 5551-5554; Great Britain.
	CE	JOHN M. BROWN and GUY C. LLOYD-JAMES; <i>Catalytic Asymmetric Hydroboration with Oxazaborolidines</i> ; <u>Tetrahedron: Asymmetry</u> ; 1990; pp. 869-872; Great Britain.
	CF	VINOD K. SINGH; <i>Practical and Useful Methods for Enantioselective Reduction of Unsymmetrical Ketones</i> ; <u>Review</u> ; Indian Institute of Technology; 1991; pp. 605-617; India.
	CG	LAURENT DELOUX and MORRIS SREBNIK; <i>Asymmetric Boron-Catalyzed Reactions</i> ; <u>Chem. Rev.</u> ; 1992; pp. 763-784; University of Toledo, Ohio, USA.
	CH	BYUNG TAE CHO and YU SUNG CHUN; <i>Asymmetric Borane Reduction of Achiral Ketones Mediated by a Chiral Oxazaborolidine Derived from (-)-Ephedrine</i> ; <u>Tetrahedron: Asymmetry</u> ; 1992; pp. 1539-1542; Great Britain.
	CI	SABINE WALLBAUM and JURGEN MARTENS; <i>Asymmetric Syntheses with Chiral Oxazaborolidines</i> ; <u>Tetrahedron: Asymmetry</u> ; 1992; pp. 1475-1504; Great Britain.
	CJ	P. Y. CHAVANT and M. VAULTIER; <i>Preparation of some organo-bis (diisopropylamino) boranes and their Application to the Synthesis of Oxazaborolidines</i> ; <u>Journal of Organometallic Chemistry</u> ; 1992; pp. 37-46; France
	CK	D. J. MATHRE, ANDRE S. THOMPSON, ALAN W. DOUGLAS, KARST HOOSTEEN, JAMES D. CARROLL, EDWARD G. CORLEY, and EDWARD J. J. GRABOWSKI; <i>A Practical Process for the Preparation of Hydro-1-methyl-3,3-diphenyl-1H,3H-pyrrolo[1,2-c]-oxazaborole-borane. A Highly Enantioselective Stoichiometric and Catalytic Reducing Agent</i> ; <u>J. Org. Chem.</u> ; 1993; pp. 2880-2888; New Jersey, USA.

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Complete if Known	
				Application Number	10/775,011
				Filing Date	2-9-2004
				First Named Inventor	Ortiz-Marciales
				Group Art Unit	Unknown
				Examiner Name	Unknown
Sheet	3	of	4	Attorney Docket Number	UPR-3100

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTER), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page (s), volume-issue number(s), publisher, city and/or country where published.
	CL	JOHN M. BROWN, GUY C. LLOYD-JONES, and TIMOTHY P. LAYZELL; <i>Reversible Dimerisation of Ephedrine-derived Oxazaborolidines</i> ; <u>Tetrahedron: Asymmetry</u> ; 1993; pp. 2151-2154; Great Britain.
	CM	MASAKO NAKAGAWA, TOMOHIKO KAWATE, TARO KAKIKAWA, HIDEKI YAMADA, TERUAKI MATSUI, and TOHRU HINO; <i>Asymmetric Reductions of Imines and Ketones by Chiral Oxazaborolidines</i> ; <u>Tetrahedron: Asymmetry</u> ; 1993; PP. 1739-1748; Chiba University, Japan; Great Britain.
	CN	RAMON BERENGUER, JORDI GARCIA, and JAUME VILARRASA; <i>Selective Reduction of Ketones Catalysed by Oxazaborolidines Prepared from Phenylglycine</i> ; <u>Tetrahedron: Asymmetry</u> ; 1994; pp. 165-168; University of Barcelona, Spain; Great Britain.
	CO	VESA NEVALAINEN; <i>Quantum Chemical Modeling of Chiral Catalysis. Part 16. On the Isomerism of Dimers of Chiral Oxazaborolidines used in the Catalytic Enantioselective Reduction of Ketones.</i> ; <u>Tetrahedron: Asymmetry</u> ; 1994; pp. 387-394; University of Helsinki, Finland; Great Britain.
	CP	GEORGE J. QUALLICH, JAMES F. BLAKE, and TERESA M. WOODALL; <i>Oxazaborolidines Structure and Enantioselectivity Relationships</i> ; <u>J. Am. Chem. Soc.</u> ; 1994; pp. 8516-8525; USA.
	CQ	BYUNG TAE CHO, YU SUNG CHUN, CH. DAUELSBERG, SABINE WALLBAUM, and JÜRGEN MARTENS; <i>Catalytic Enantioselective Reactions. Part 2. A Comparison Study of Asymmetric Borane Reduction of Prochiral Ketones Catalyzed by Chiral Oxazaborolidines</i> ; <u>Communications to the Editor</u> ; 1994; pp. 101-103; Germany
	CR	BYUNG TAE CHO, MI HAE RYU, YU SUNG CHUN, CH. DAUELSBERG, SABINE WALLBAUM, and JÜRGEN MARTENS; <i>A Direct Comparison Study of Asymmetric Borane Reduction of C=N Double Bond Mediated by Chiral Oxazaborolidines</i> ; <u>Bull. Korean Chem. Soc.</u> ; 1994; pp.53-57; Republic of Korea/Germany.
	CS	E. J. COREY and KARLENE A. CIMPRICH; <i>Highly Enantioselective Alkynylation of Aldehydes Promoted by Chiral Oxazaborolidines</i> ; <u>J. Am. Chem. Soc.</u> ; 1994; pp. 3151-3152; USA
	CT	CLAUDE CAZE, NOUREDDINE EL MOUALIJ, PHILIP HODGE, CHRISTOPHER J. LOCK, and JIANBIAO MA; <i>Some Enantioselective Borane Reductions of Prochiral Ketones Catalysed by Polymer-supported Oxazaborolidines Bound via the Boron Atom</i> ; <u>J. Chem. Soc. Perkin Trans.</u> ; 1995; pp. 345-349; France/United Kingdom
	CU	JORDI BACH, RAMON BERENGUER, JORDI GARCIA, TERESA LOSCERTALES, and JAUME VILARRASA; <i>Highly Enantioenriched Propargylic Alcohols by Oxazaborolidine-Mediated Reduction of Acetylenic Ketones</i> ; <u>J. Org. Chem.</u> ; 1996; pp. 9021-9025; Spain/USA
	CV	AHMED F. ABDEL-MAGID; <i>Reductions in Organic Synthesis. Recent Advances and Practical Applications</i> ; American Chemical Society; 1996; pp. 112-126; USA

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Complete if Known	
				Application Number	10/775,011
				Filing Date	2-9-2004
				First Named Inventor	Ortiz-Marciales
				Group Art Unit	Unknown
				Examiner Name	Unknown
Sheet	4	of	4	Attorney Docket Number	UPR-3100

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTER), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page (s), volume-issue number(s), publisher, city and/or country where published.
	CW	JOHN T. DOUGHERTY, JOSEPH R. FLISAK, JEROME HAYES, IVAN LANTOS, LI LIU, and LYNN TUCKER; <i>Asymmetric reduction of ketoxime ethers to optically active O-substituted hydroxylamines with reagents prepared from borane and chiral amino alcohols</i> ; <u>Tetrahedron: Asymmetric</u> ; 1997; pp. 497-499; Great Britain
	CX	BYUNG TAE CHO, and YU SUNG CHUN; <i>Facile Synthesis of Terminal 1,2-Diols with High Optical Purity via Oxazaborolidine-Catalyzed Asymmetric Borane Reduction</i> ; <u>J. Org. Chem.</u> ; 1998; pp. 5280-5282; USA
	CY	ALBERTO ROSENDO RICO, MARGARITA TLAHUEXTL, ANGELINA FLORES-PARRA, ROSALINDA CONTRERAS; <i>Addition reactions of protonic reagents to optically active 2-phenyl-1,3,2-oxazaborolidines</i> ; <u>Journal of Organometallic Chemistry</u> ; 1998; pp. 122-128; México/USA
	CZ	CRISTINA PUIGJANER, ANTON VIDAL-FERRAN, ALBERT MOYANO, MIQUEL A. PERICAS, and ANTONI RIERA; <i>A New Family of Modular Chiral Ligands for the Catalytic Enantioselective Resuction of Prochiral Ketones</i> ; <u>J. Org. Chem.</u> ; 1999; pp. 7902-7911; Spain/USA
	DA	EVELYNE FONTAINE, CLAUDIE NAMANE, JEROME MENEYROL, MICHEL GESLIN, LAURENCE SERVA, ELIANE ROUSSEY, STEPHANIE TIESSANDIE, MOHAMED MAFTOUH, and PIERRE ROGER; <i>Synthesis of optically-active benzylic amines; asymmetric reduction of ketoxime ethers with chiral oxazaborolidines</i> ; <u>Tetrahedron: Asymmetry</u> ; 2001; pp. 2185-2189; France/USA
	DB	
	DC	
	DD	
	DE	
	DF	
	DG	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--